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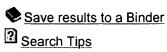
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1 Synthesis of complex dynamic character motion from simple animations ▬

C. Karen Liu, Zoran Popović

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 3

Full text available: 🗋 pdf(5.75 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we present a general method for rapid prototyping of realistic character motion. We solve for the natural motion from a simple animation provided by the animator. Our framework can be used to produce relatively complex realistic motion with little user effort. We describe a novel constraint detection method that automatically determines different constraints on the character by analyzing the input motion. We show that realistic motion can be achieved by enforcing a small set of line ...

Keywords: animation, animation w/constraints, motion transformation, physically based animation, physically based modeling, spacetime constraints

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2 Military applications: A formation behavior for large-scale micro-robot force deployment ▭

Donald D. Dudenhoeffer, Michael P. Jones

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: 🗋 pdf(388.69 KB)   Additional Information: full citation, abstract, references, citings

Micro-robots will soon be available for deployment by the thousands. Consequently, controlling and coordinating a force this large to accomplish a prescribed task is of great interest. This paper describes a flexible architecture for modeling thousands of autonomous agents simultaneously. The agents' behavior is based on a subsumption architecture in which individual behaviors are prioritized with respect to all others. The primary behavior explored in this work is a group formation behavior bas ...

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3 Sensor deployment and target localization in distributed sensor networks ▭

Yi Zou, Krishnendu Chakrabarty

February 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 1

Full text available: 🗋 pdf(294.46 KB)   Additional Information: full citation, abstract, references, index terms

The effectiveness of cluster-based distributed sensor networks depends to a large extent on the coverage provided by the sensor deployment. We propose a virtual force algorithm (VFA) as a sensor deployment strategy to enhance the coverage after an initial random

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1 Dynamic Movement Prediction: An on-line railroad simulation model
Michael G. Tashker, Peter J. Wong
December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 2**

Full text available: 📄 pdf(497.13 KB)   Additional Information: full citation, abstract, references, index terms

The Dynamic Movement Predictor is a FORTRAN event-step railroad simulation. It is initialized with yard inventories and consists of trains currently running from an on-line data base (i.e., RAILS: Railroad Automated Identification and Location System). The user inputs block definitions, train schedules and marshalling instructions as well as expected traffic for nonautomated network points. The simulation generates yard and train reports as well as system cost statistics. The simulation sys ...

2 Session 1B: Natural language processing: Some issues and problems in text tagging using neural networks
Julian Eugene Boggess
April 1992 **Proceedings of the 30th annual Southeast regional conference**

Full text available: 📄 pdf(365.20 KB)   Additional Information: full citation, abstract, references

This paper reports the results of several experiments conducted on automatic text tagging using neural networks. Error backpropagation networks were tested to see how effective they would be at correctly predicting the syntactic and semantic classification ("tag") of a word in a sentence, given some or no contextual information. The following contexts were examined: (1) the ending (last three letters) of the word alone, and (2) an encoded representation of the word, preceded by the representatio ...

3 Parametric modeling in rail capacity planning
Harald Krueger
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--- a bridge to the future - Volume 2**

Full text available: 📄 pdf(175.64 KB)   Additional Information: full citation, index terms

4 Traffic characterization of the NSFNET national backbone
Steven A. Heimlich
April 1990 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1990 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 18 Issue 1